

FIG. 1

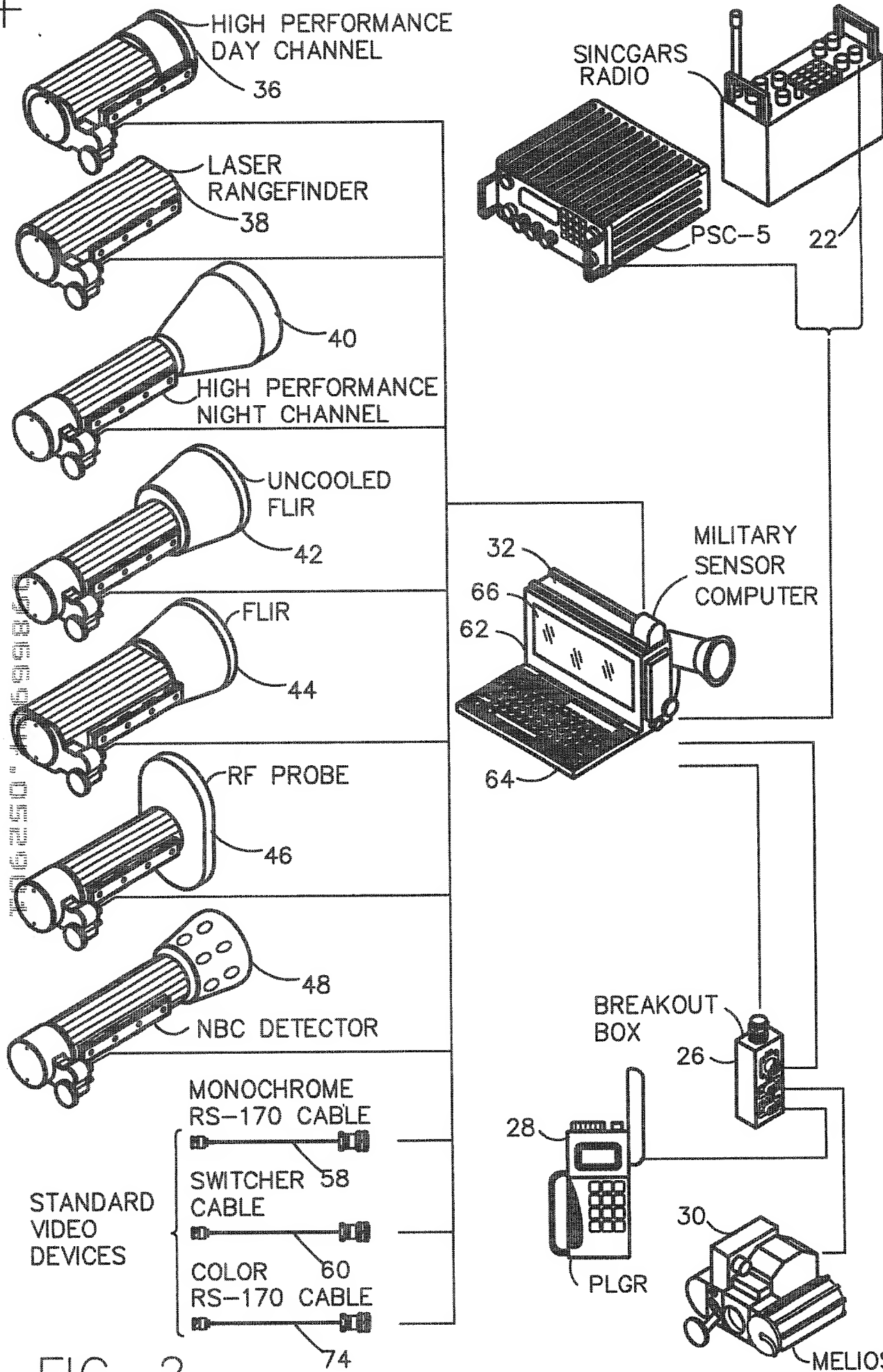


FIG. 2

+

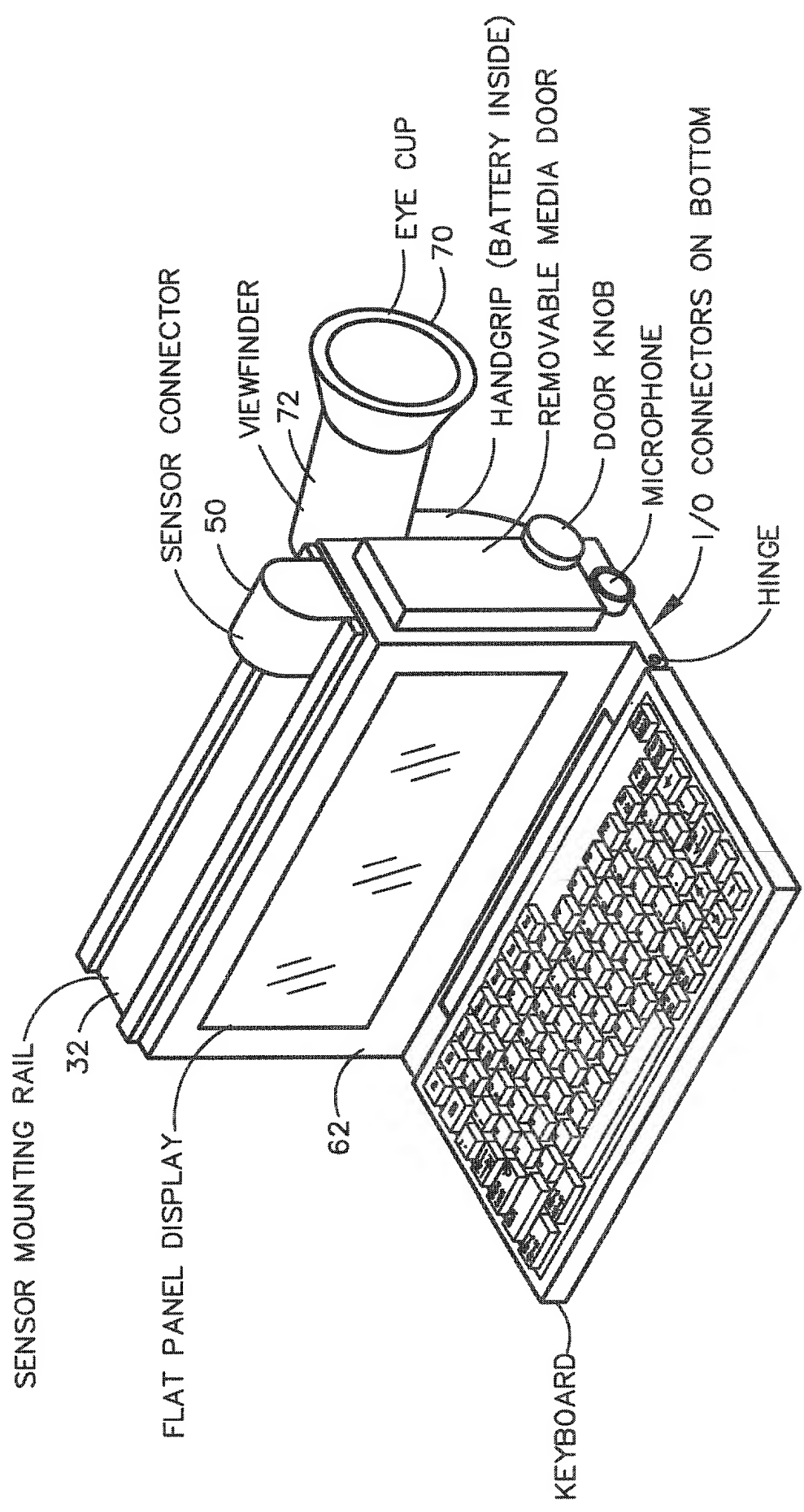


FIG. 3

+

+

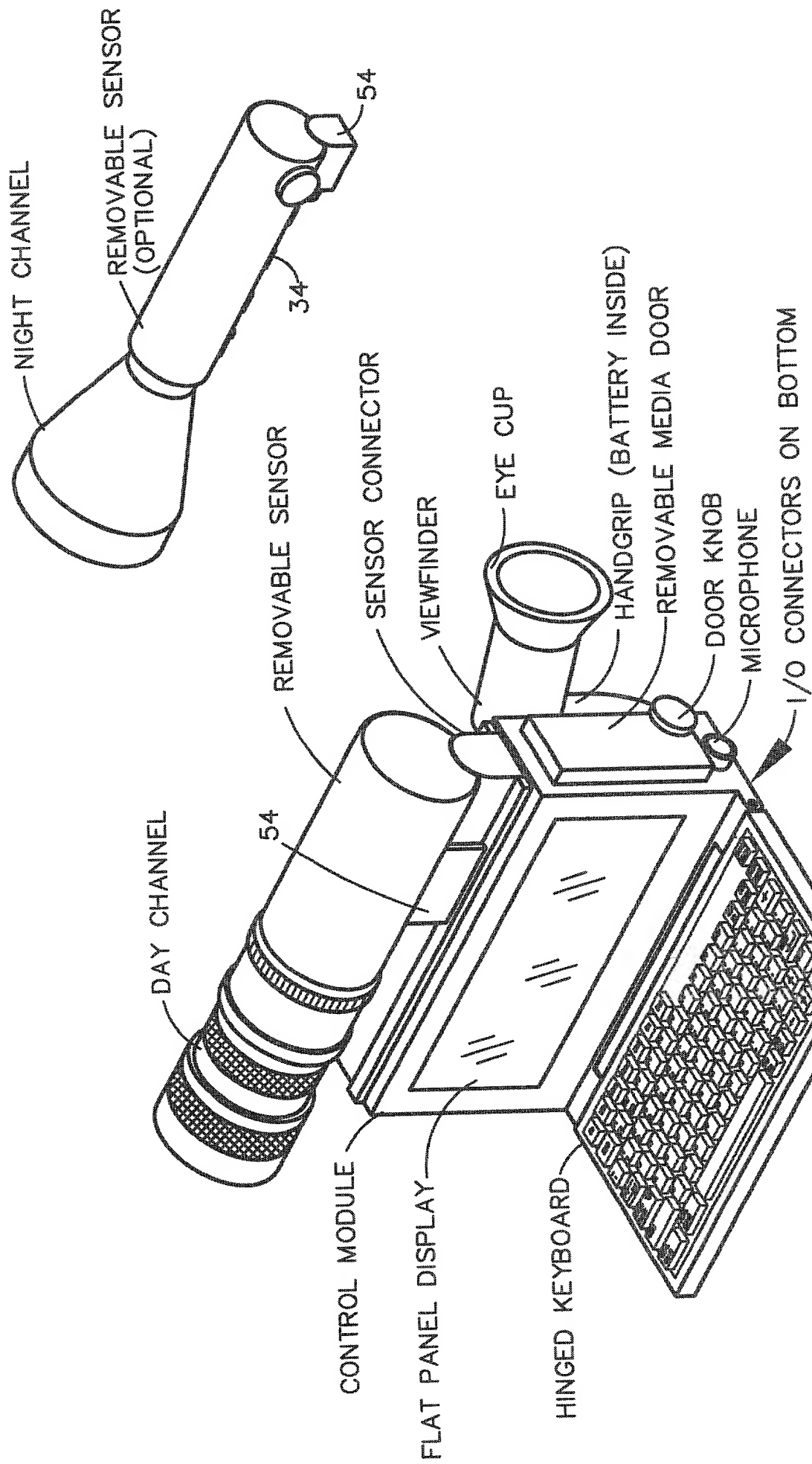


FIG. 4

+

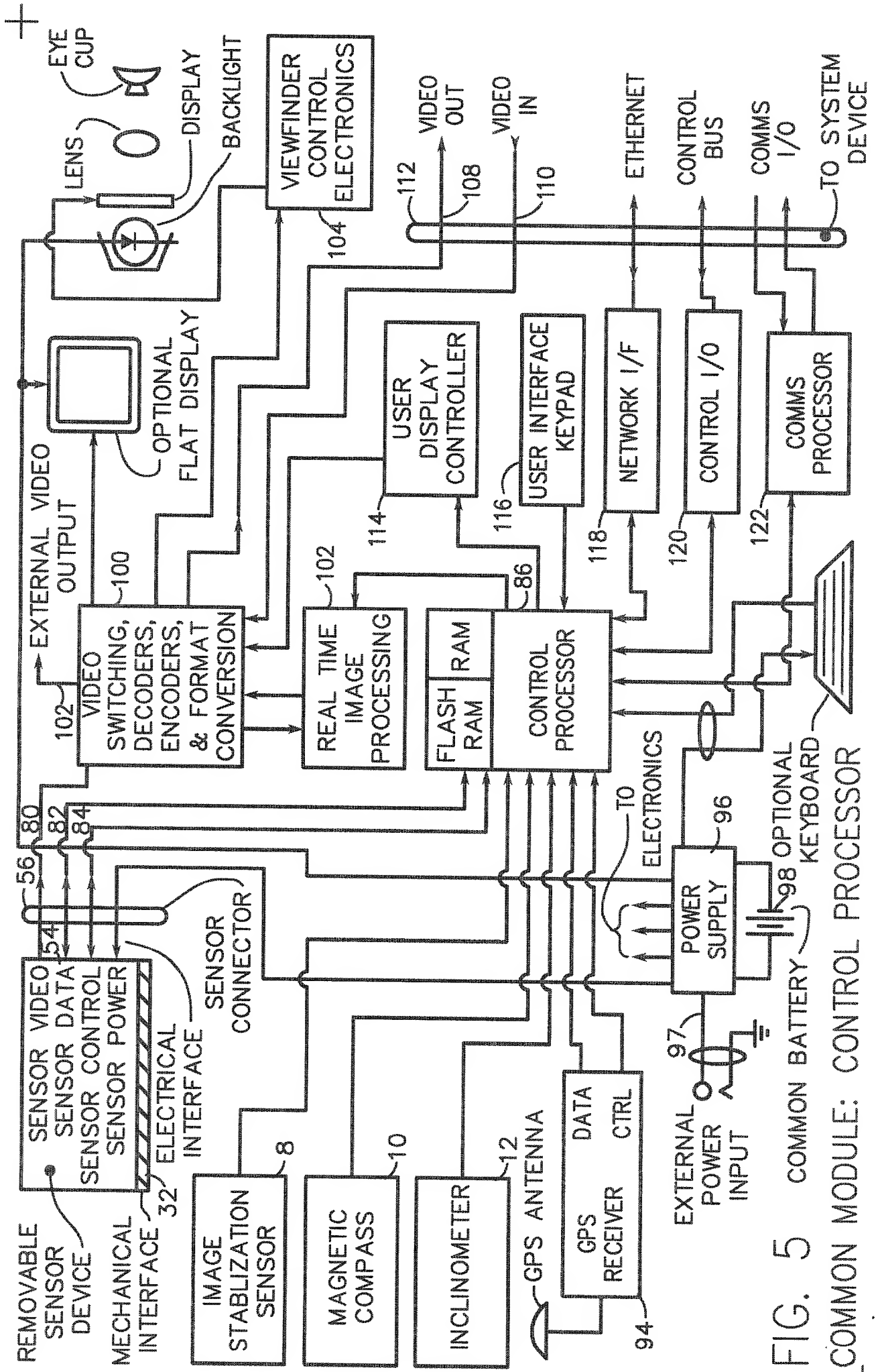


FIG. 5  
COMMON MODULE: CONTROL PROCESSOR

+

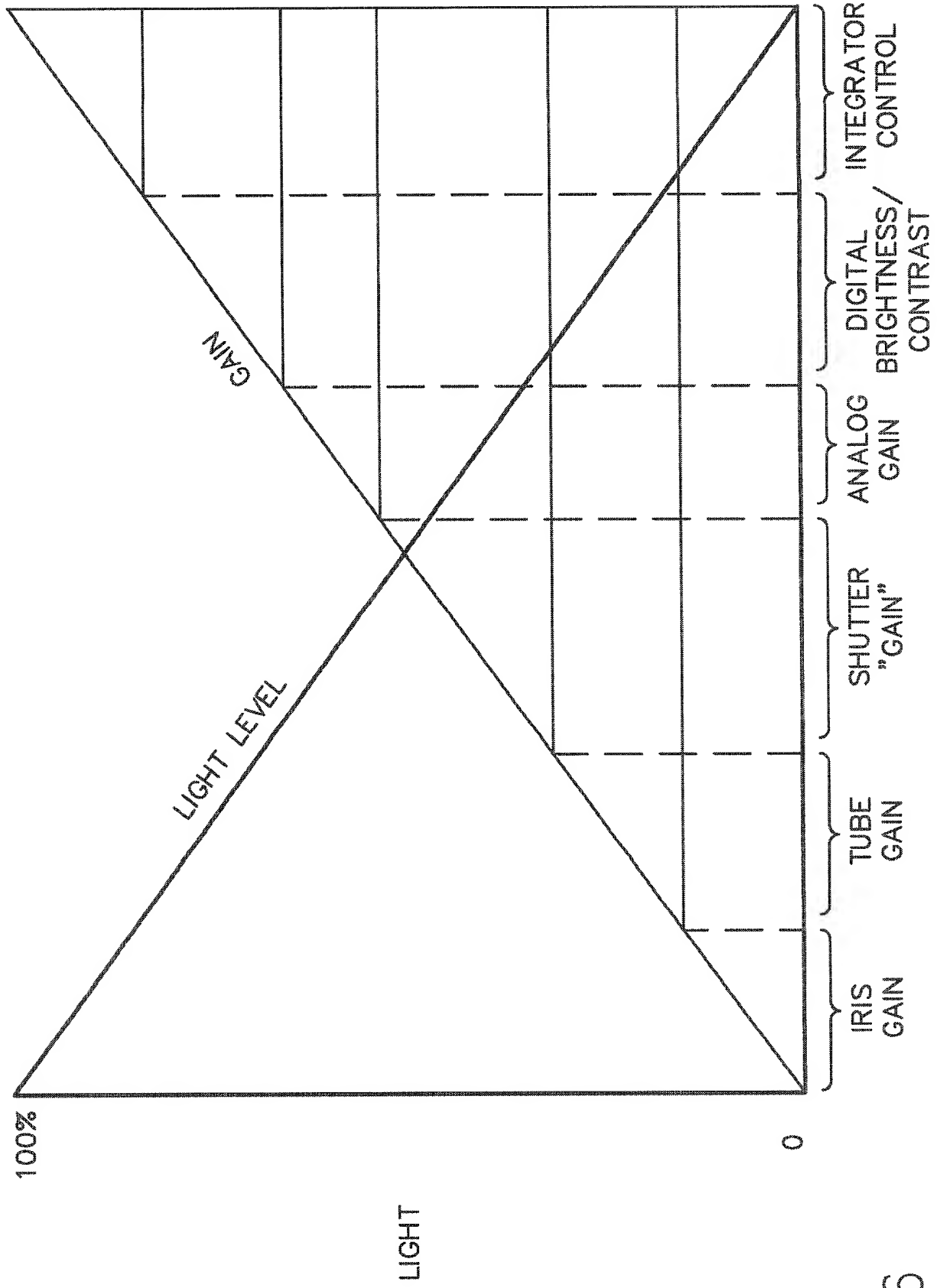
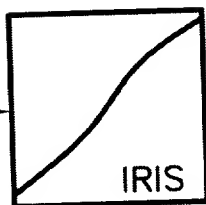


FIG. 6

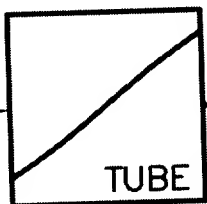
+

+

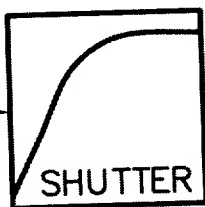
LOOK  
UP  
TABLES



IRIS CONTROL



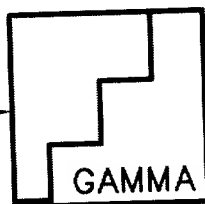
TUBE GAIN CONTROL



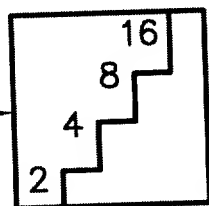
CAMERA SHUTTER CONTROL



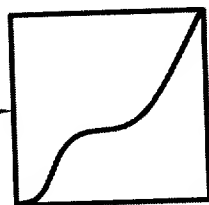
ANALOG FRONT END GAIN



CAMERA GAMMA CONTROL



FRAME INTEGRATOR CONTROL



VIDEO LOOK UP TABLE  
ADJUSTMENT SOFTWARE

USER CONTRAST ADJUST

FIG. 7

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SCANNED.# 22

LIGHT  
LEVEL

"GAIN  
ADJUST"

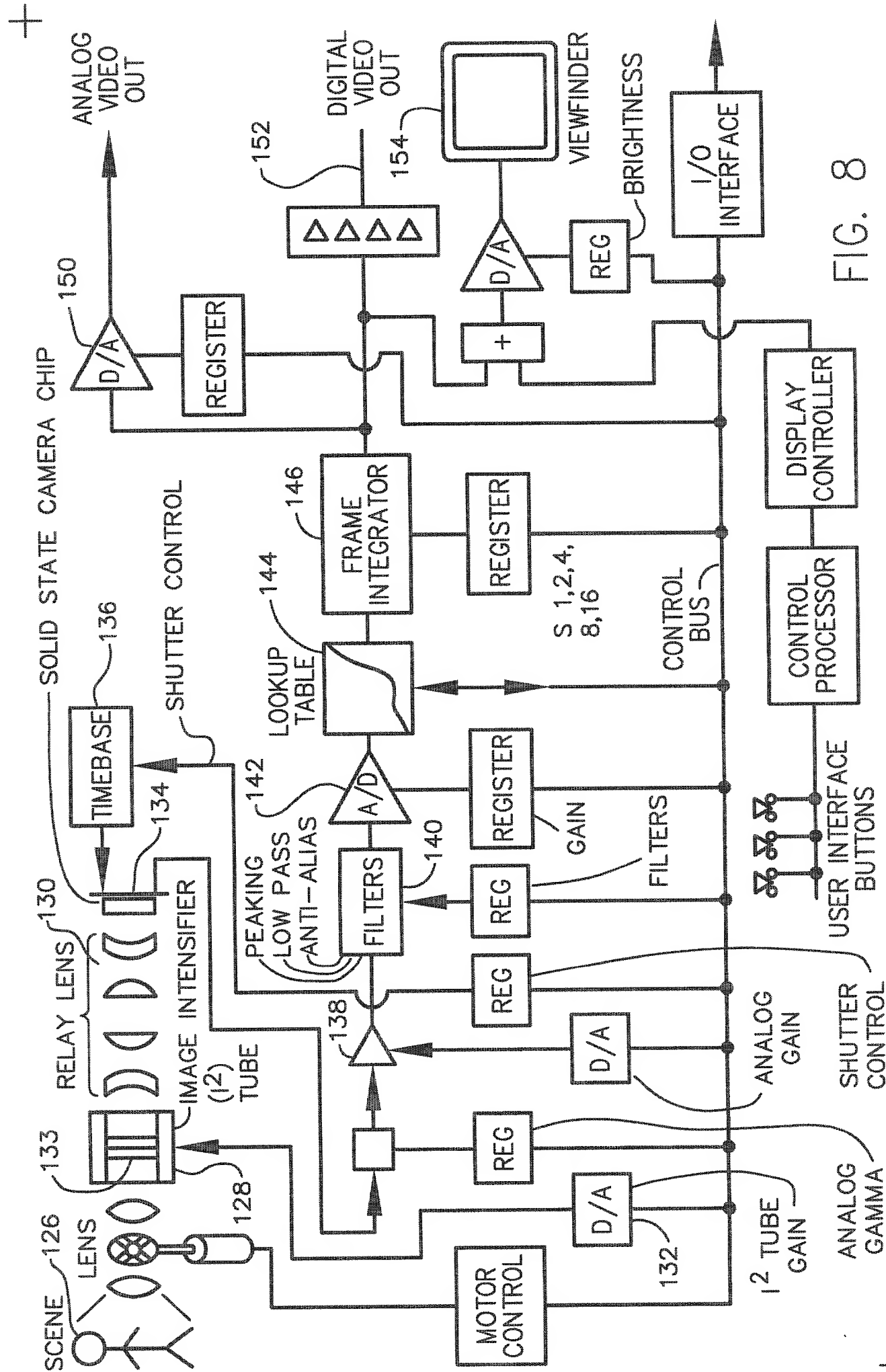
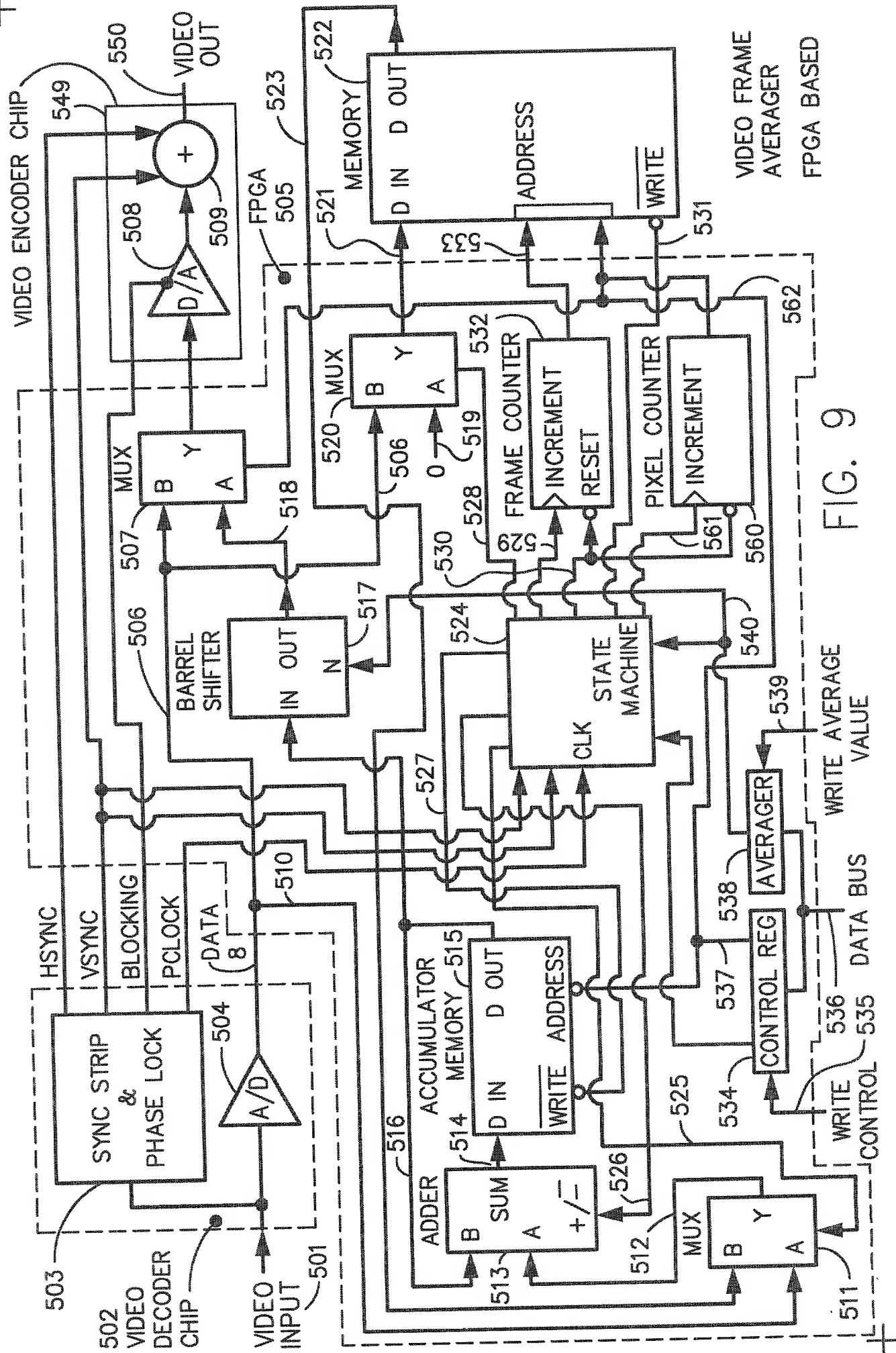


FIG. 8



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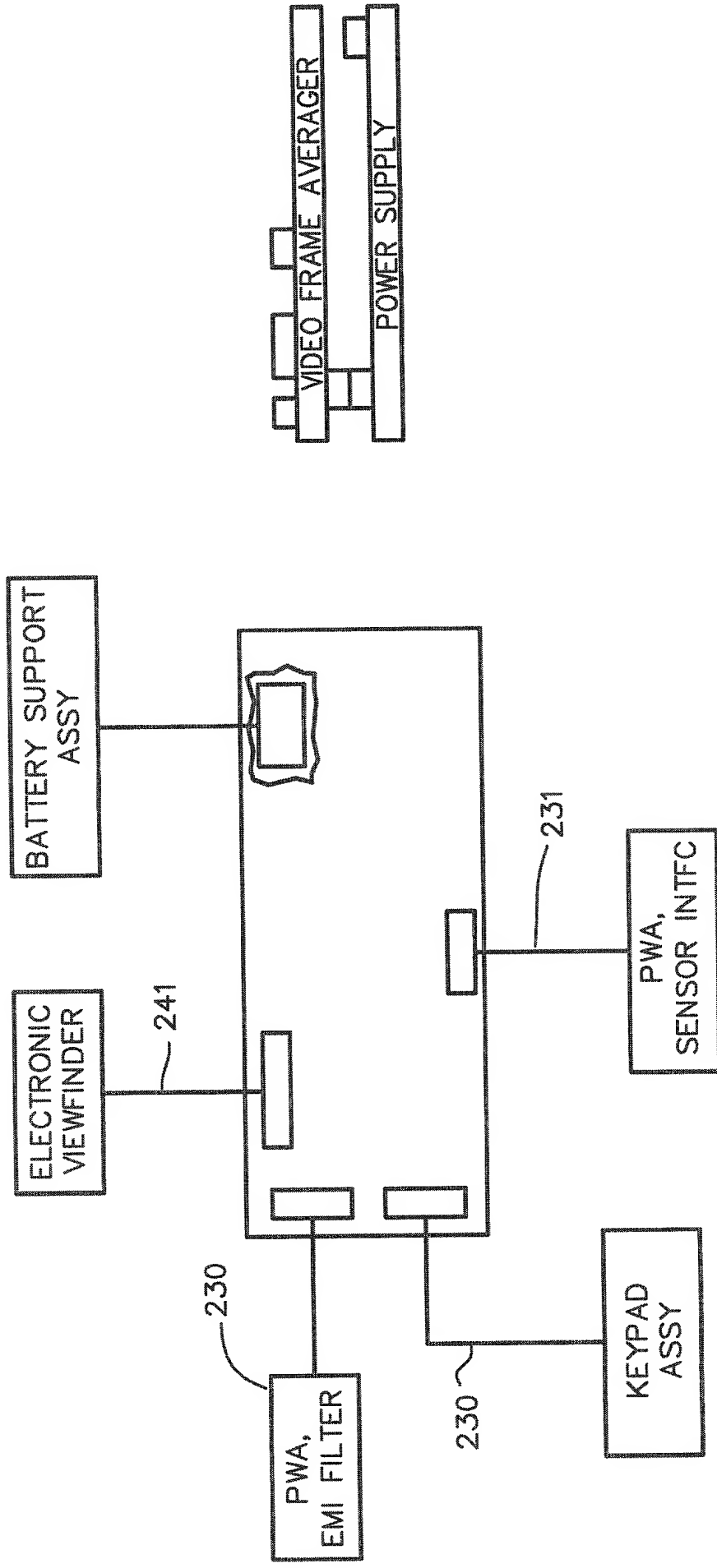


FIG. 10





[illegible]


 <b>V-Spectrum</b> <i>Intelligent Instrumentation</i> 12725 Spectrum Drive San Antonio, Texas 78249	Project Title <b>VFA</b>		Proprietary & Confidential Drawn By <b>WJG</b> Date <b>03-10-01</b>		Rev <b>A</b>
	Ship <b>Plaza</b> to <b>HOST/PCGA</b> Date <b>Friday, May 18, 2001</b>		Rtdicker of <b>7</b> Sheet <b>2</b>		

FIG. 10e

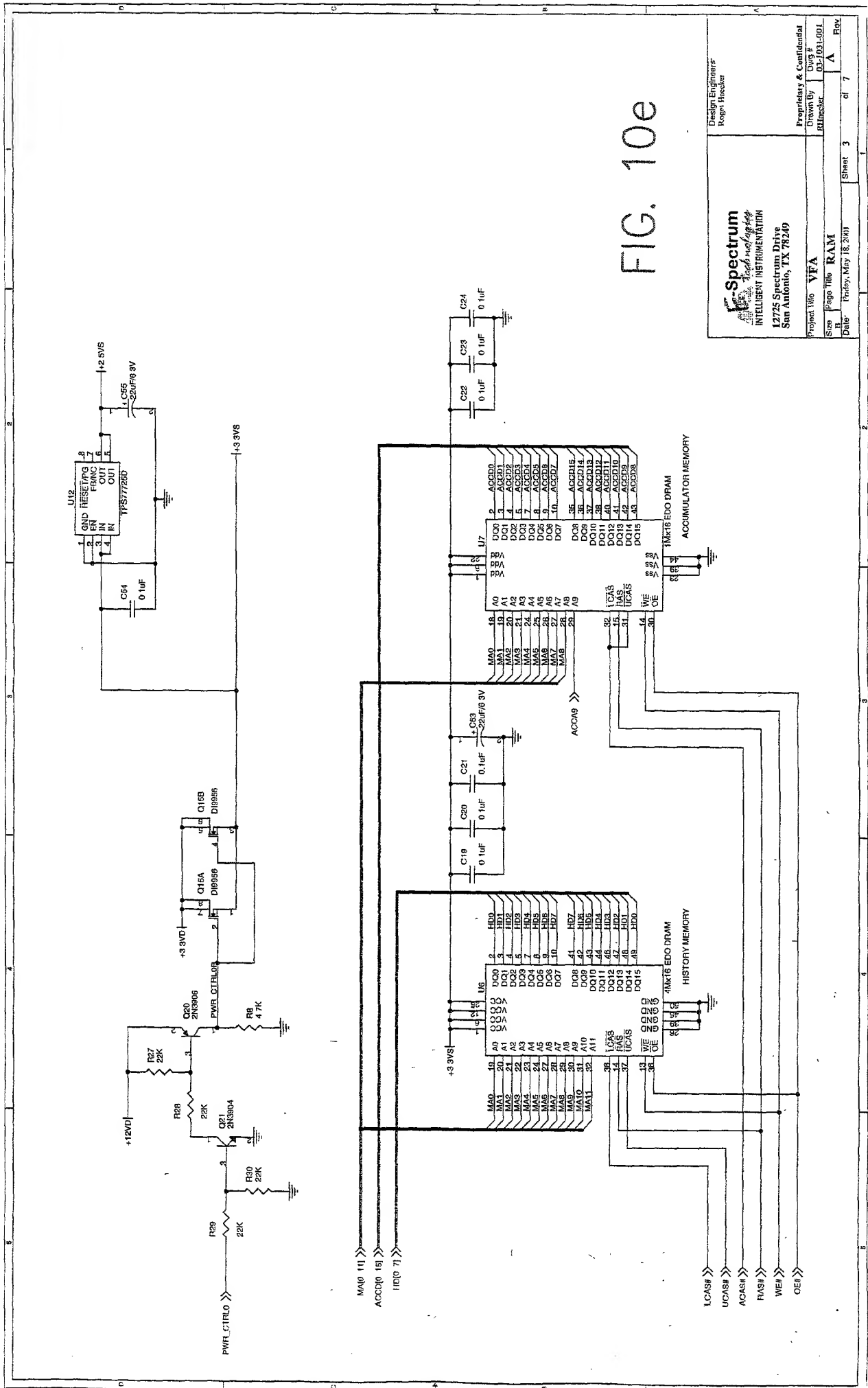


FIG. 10e

<b>Spectrum</b> INTELLIGENT INSTRUMENTATION 12725 Spectrum Drive San Antonio, TX 78249		Design Engineers: Roger Hecker	
Project No.	VFA	Proprietary & Confidential	
Size	Page 10	Drawn By	RM
Date	Friday, May 18, 2001	Sheet	3 of 7

10630 4369360

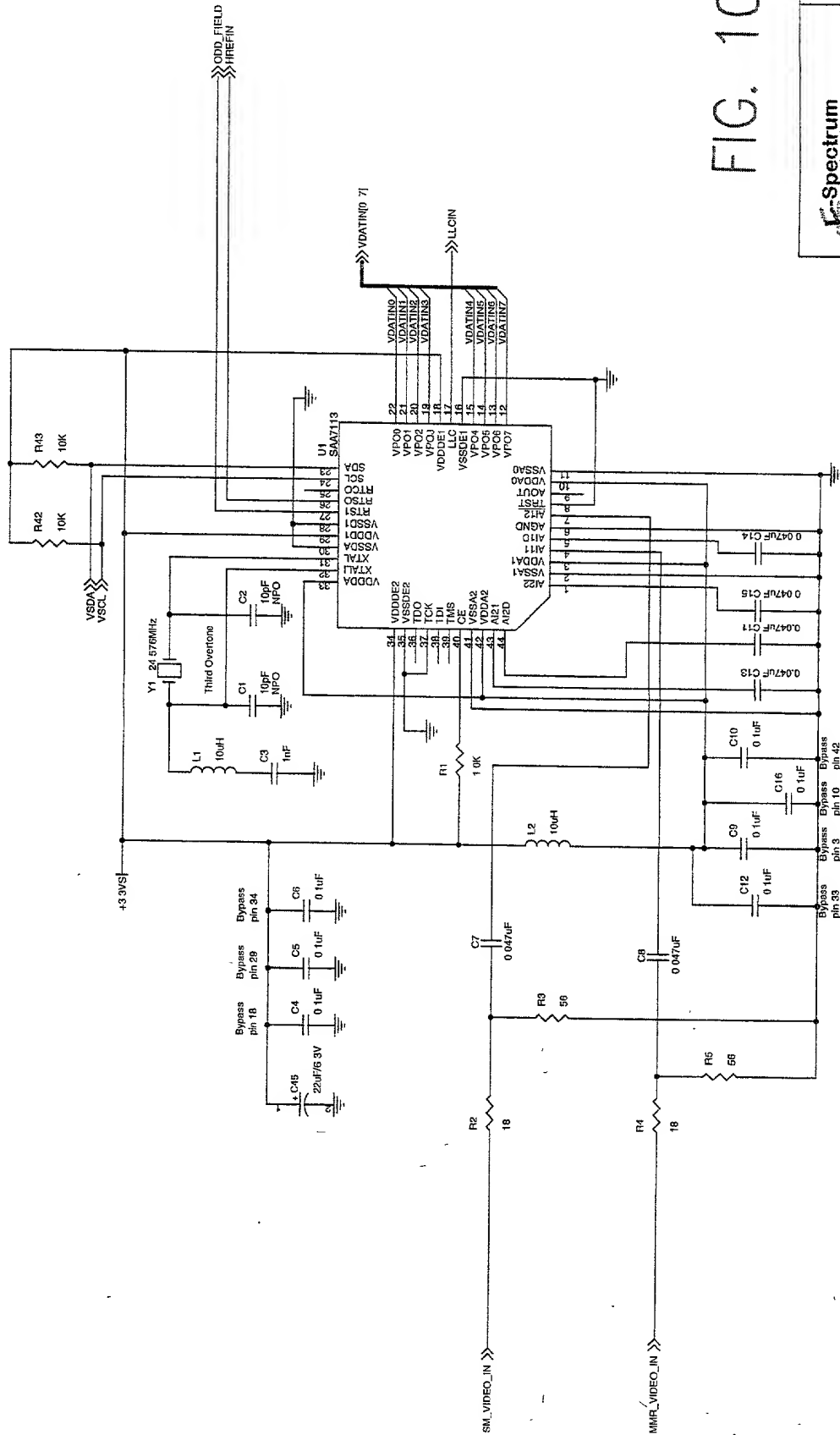


FIG. 10f

<b>Spectrum</b> INTELLIGENT INSTRUMENTATION 12725 Spectrum Drive San Antonio, Texas 78249		Design Engineers Roger Tucker	
Project Title: <b>VFA</b>		Proprietary & Confidential	
Page Title: <b>VIDEO DECODER</b>		Drawn By: <b>RHacker</b>	
Size: <b>A</b>	Date: <b>Friday, May 18, 2001</b>	Sheet: <b>4</b>	of: <b>7</b>

FIG. 10g

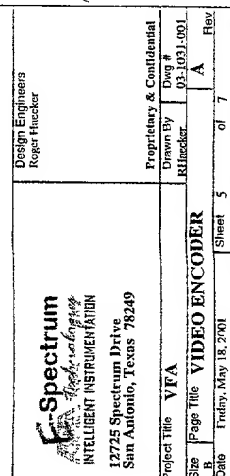
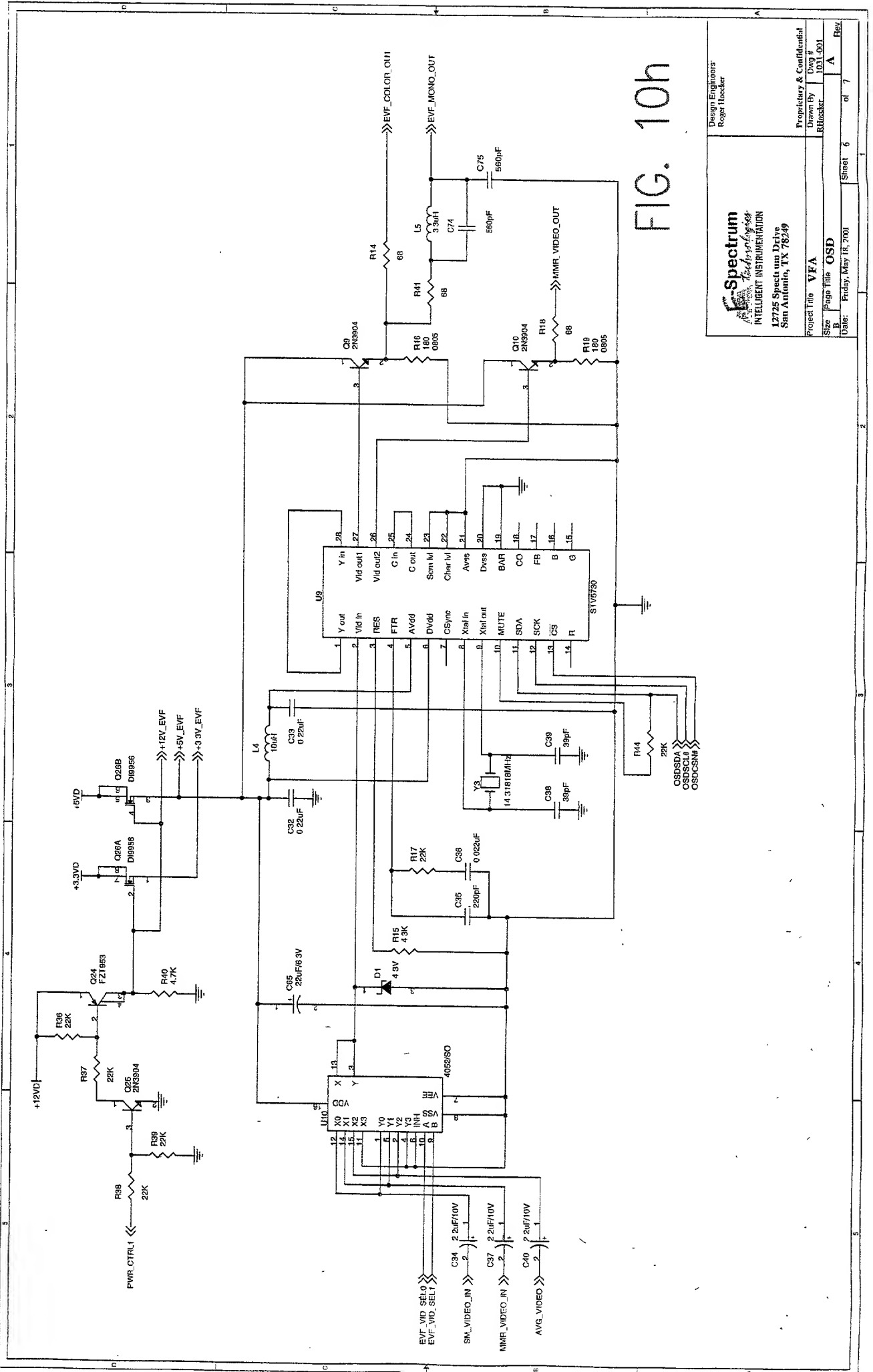


FIG. 10h



**Spectrum**  
INTELLIGENT INSTRUMENTATION  
12725 Spectra um Drive  
San Antonio, TX 78249

Design Engineers:  
Roger Huecker

Proprietary & Confidential  
Drawn By  
RHuecker  
Dwg #  
1031-001

Project Title  
VFA  
Page Title  
OSD  
Date:  
Friday, May 18, 2001  
Sheet  
6  
of  
7  
Rev



106490-1269360

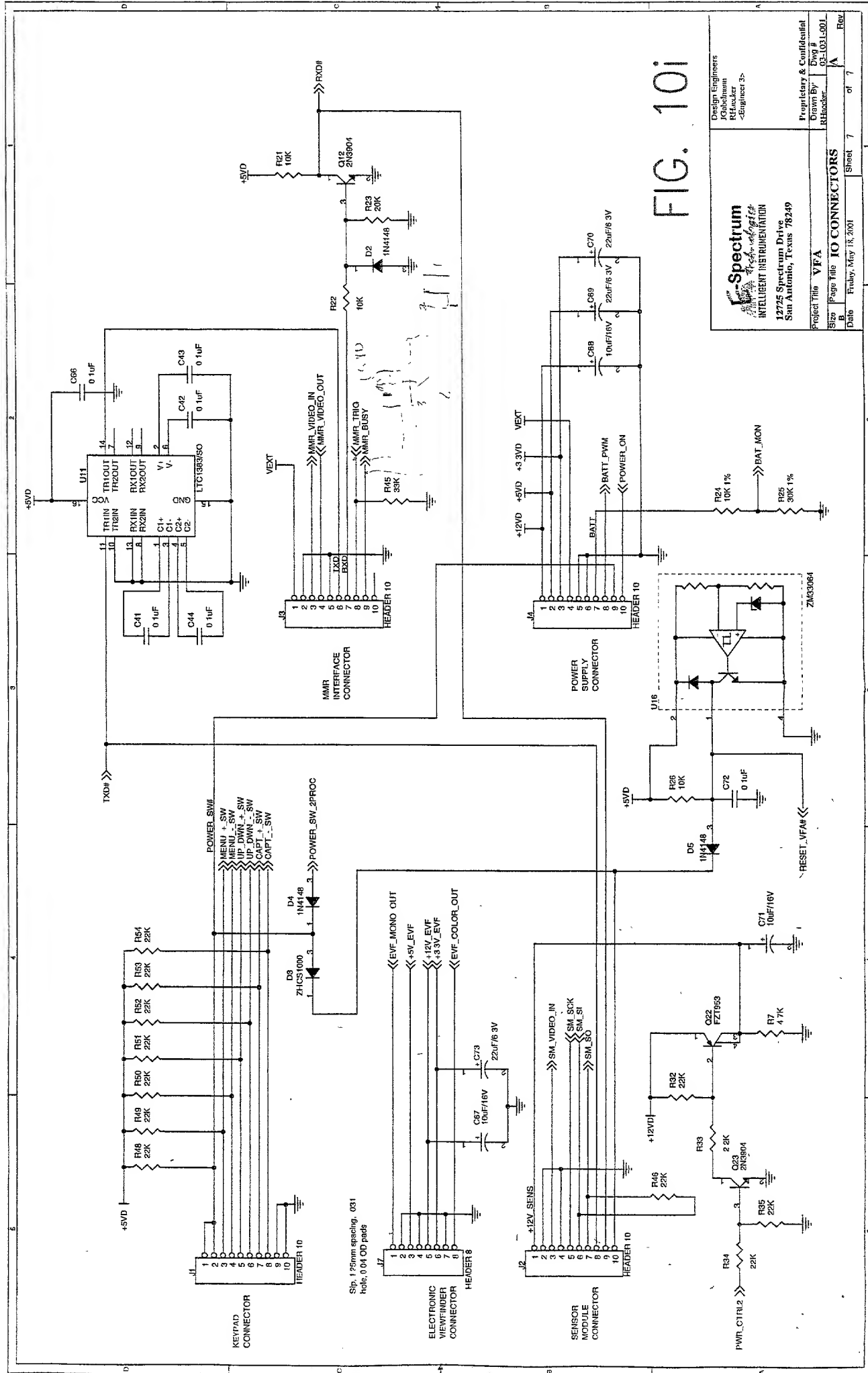


FIG. 10i

<b>Spectrum</b> INTELLIGENT INSTRUMENTATION 17725 Spectrum Drive San Antonio, Texas 78249		Design Engineers R. Johnson R. K. Johnson <Engineer 3>
Project Title <b>VFA</b> Page Title <b>IO CONNECTORS</b> Date <b>Friday, May 13, 2001</b>		Proprietary & Confidential Drawn By R. Johnson 02-103-0001 R. Johnson
Sheet <b>7</b>	of <b>7</b>	Rev <b>7</b>



+

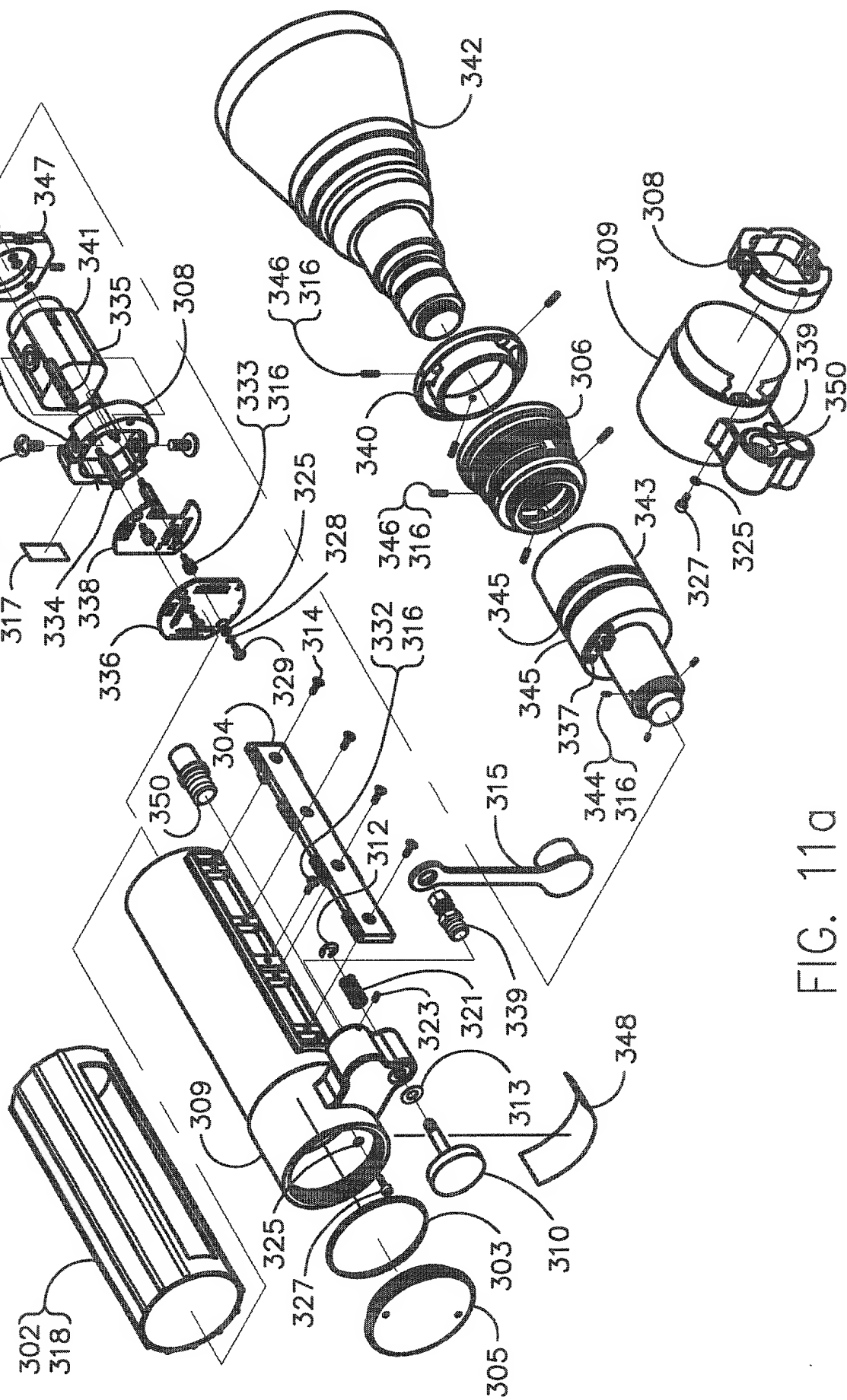


FIG. 11a

+

[illegible]

IN AND POWER SUPPLY



SCH DIA,  
CONTROLLER,  
NIGHT CHANNEL

SCH-9254-001A

PHOTOTELETYPE CORPORATION  
 PROPRIETARY (SEE SHEET 1)



FIG. 11d

CAMERA INTERFACE

SCH DIA.  
CONTROLLER  
NIGHT CHANNEL

SCH-9254--001A

PHOTOELECTRIC CORPORATION  
PROPRIETARY (SEE SHEET 1)

## CASE STUDY



SCH DIA,  
CONTROLLER,  
NIGHT CHANNEL

SCH-9254-001 A

PHOTOTECHNICS CORPORATION  
 PROPRIETARY (SEE SHEET 1)

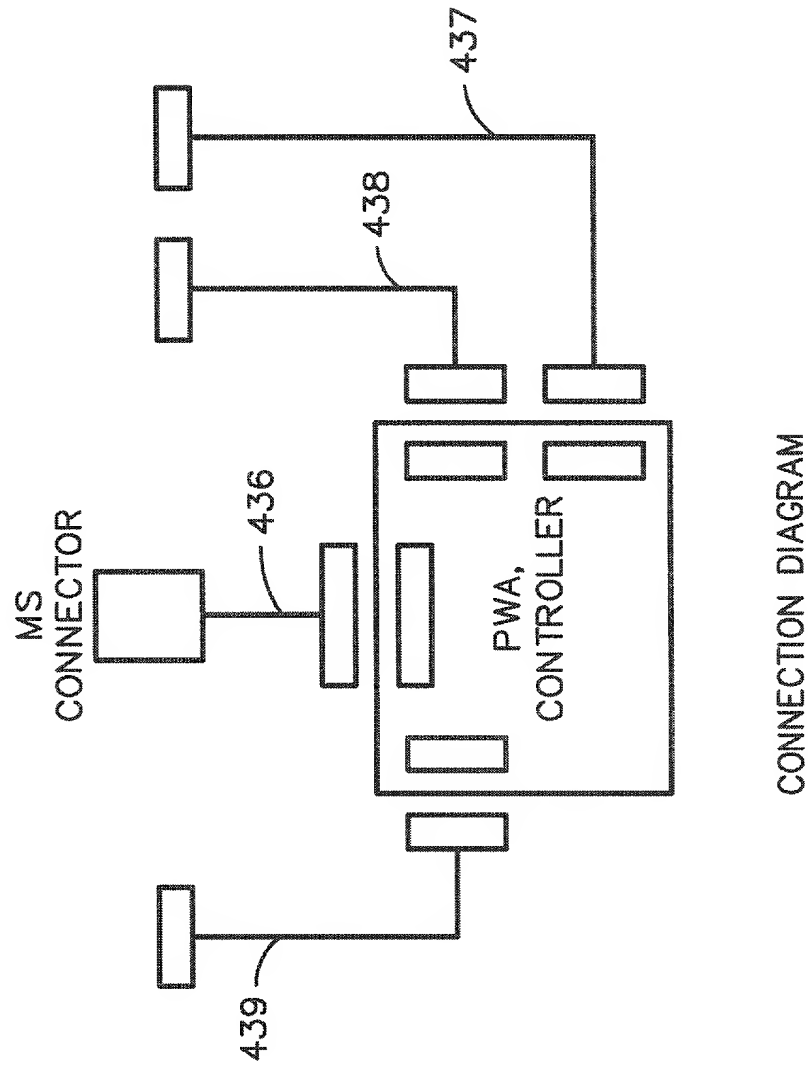


FIG. 12



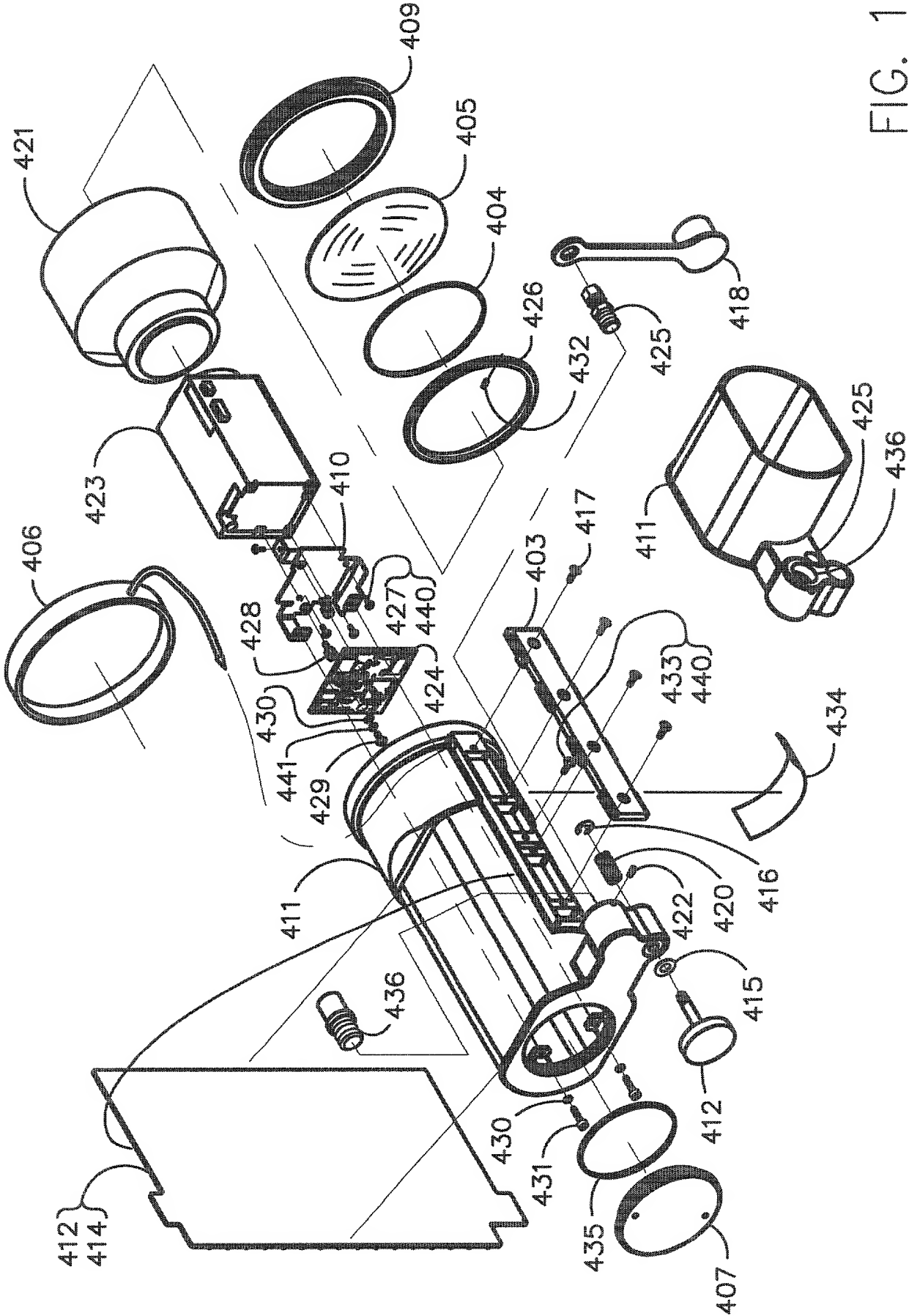


FIG. 12a





FIG. 12b

VFA INTERFACE

SCH DIA  
CONTROLLER  
DAY CHANNEL

SCH-9253-001

PHOTOELECTRIC CORPORATION  
PROPRIETARY (SEE SHEET 1)

## VFA INTERFACE

SCH DIA,  
CONTROLLER,  
DAY CHANNELPHOTOTELETYPE CORPORATION  
 PROPRIETARY (SEE SHEET 1)

[illegible]

## MICROCONTROLLER

**PhotoTale™**

SCH DIA,  
CONTROLLER,  
DAY CHANNEL

U.S. SCH-9253-001

PHOTO-TELETYPE CORPORATION  
 PROPRIETARY (SEE SHEET 1)

FO6250-4859860

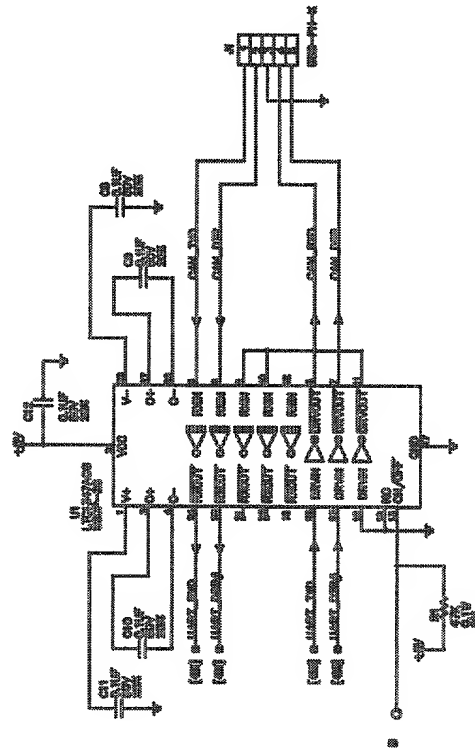


FIG. 12d

RS-232 INTERFACE



SCH DIA.  
CONTROLLER  
DAY CHANNEL

SCH-9253-001A  
REV. 1.0  
1998

PHOTOELESS CORPORATION  
PROPRIETARY (SEE SHEET 1)